## Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/765,191 Examiner

TAKAHASHI ET AL. Art Unit

Fritz Alphonse

2112

|          |            | 1        | Re        | Rejected |           |          |   | E            |            | (Through numeral)<br>Cancelled |   |                |          |          |           |           | N        | N         | Non-Electe   |          |          | ed       |   | A        | Appeal     |          |           |          |          |           |           |          |           |          |
|----------|------------|----------|-----------|----------|-----------|----------|---|--------------|------------|--------------------------------|---|----------------|----------|----------|-----------|-----------|----------|-----------|--------------|----------|----------|----------|---|----------|------------|----------|-----------|----------|----------|-----------|-----------|----------|-----------|----------|
|          |            | =        | Allowed   |          |           |          | ÷ |              | Restricted |                                |   |                |          |          |           |           | ı        | Ir        | Interference |          |          | ce       | е |          | Objected   |          |           |          |          |           |           |          |           |          |
| Cla      | Claim Date |          |           |          |           |          | _ | _            | _          | Claim                          |   |                |          |          |           | Date      | e        |           |              |          |          | Claim    |   |          | Date       |          |           |          | _        |           |           |          |           |          |
| Final    | Original   | 6/19/07  |           |          |           |          |   |              |            |                                |   | Final          | Original |          |           |           |          |           |              |          |          |          | ł | Final    | Original   |          |           |          |          |           |           |          |           |          |
| 1        | 1          | =        | $\exists$ |          |           |          |   | E            | t          |                                | 1 |                | 51       |          |           |           |          |           |              |          |          |          | į |          | 101        | Ħ        | ╛         |          | ╛        | $\exists$ |           |          |           | ╛        |
| 3        | 3          | 11 11    | -         | -        | 4         | L        |   | ⊢            | ╀          | -                              | 1 | $\vdash$       | 52       |          |           | _         | ⊢        | L         | Н            | _        | _        | Ц        | - | _        | 102        | Н        | 4         | -        | 4        | 4         | 4         | 4        | 4         | 4        |
| 4        | 4          | =        | $\vdash$  | +        | +         | -        |   | +            | ╁          | H                              | ┨ | $\vdash$       | 53<br>54 |          | -         | -         | Н        | H         | Н            | -        | -        | Н        | ŀ |          | 103        | Н        | $\dashv$  | Н        | +        | +         | $\dashv$  | +        | +         | $\dashv$ |
| 5        | 5          | =        | +         | +        | 1         |          |   | $\vdash$     | H          | -                              | 1 |                | 55       |          | Н         | _         | Н        | -         | Н            | -        | -        | Н        | ŀ | _        | 105        | Н        | $\dashv$  | +        | +        | +         | $\dashv$  | $\dashv$ | +         | ┥        |
| 6        | 6          | =        | $\top$    | 7        | ┪         | Т        | Т | $^{\dagger}$ | 1          | Т                              | 1 |                | 56       | Т        |           | _         |          | Т         | П            | _        | Т        | Н        | ı |          | 106        | Н        | ┪         | $\neg$   | 7        | ┪         | $\dashv$  | 7        | $^{+}$    | ┨        |
| 7        | 7          | =        |           |          |           |          |   |              |            |                                | ] |                | 57       |          |           |           |          |           |              |          |          |          |   |          | 107        |          |           |          |          | $\Box$    |           |          |           | ⊐        |
| 8        | 8          | =        | _         | 4        | _         |          | L | ┖            |            |                                | 1 |                | 58       |          |           |           |          |           |              |          |          |          |   |          | 108        | П        | $\Box$    |          |          |           |           |          | _         | コ        |
| 9        | 9          | =        | $\vdash$  | 4        | 4         | _        | 1 | ⊢            | 1          | L                              | 1 | $\vdash$       | 59       | Н        | Ц         | _         | ⊢        | _         | Н            | _        |          | Н        | - |          | 109        | Н        | 4         |          | 4        | 4         | 4         | 4        | 4         | 4        |
| 10<br>11 | 10         | =        | $\vdash$  | +        | -         | -        | H | -            | $\vdash$   | -                              | 1 | $\vdash$       | 60<br>61 | Н        | Н         | -         | Н        | ⊢         | Н            | -        | -        | Н        | ŀ | -        | 110        | $\vdash$ | $\dashv$  | $\vdash$ | +        | $\dashv$  | $\dashv$  | 4        | +         | 4        |
| 12       | 12         |          | +         | +        | +         | -        | - | +            | H          | $\vdash$                       | 1 | $\vdash$       | 62       | Н        | Н         | _         | Н        | H         | Н            | -        | $\dashv$ | Н        | ŀ | -        | 112        | Н        | $\dashv$  | +        | +        | +         | +         | $\dashv$ | +         | $\dashv$ |
| 13       | 13         | =        | $\top$    | +        | $\dashv$  |          | Н | 1            | t          | Н                              | 1 | $\vdash$       | 63       | Н        | Н         |           | Н        | -         | Н            | -        | -        | Н        | ŀ |          | 113        | Н        | $\dashv$  | $\dashv$ | +        | +         | +         | 7        | $\dashv$  | ۲        |
| 14       | 14         | =        |           | 7        | ╗         |          | г |              |            | Г                              | 1 |                | 64       | П        |           |           |          | Т         | П            |          |          |          | ı |          | 114        |          | ┪         | 1        | 7        | ヿ         |           | 7        | $\top$    | ┪        |
| 15       | 15         | ı        |           |          | $\exists$ |          |   |              |            |                                | ] |                | 65       |          |           |           |          |           |              |          |          |          |   |          | 115        |          | ╗         | $\neg$   |          | ┑         |           |          | $\neg$    | ٦        |
| 16       | 16         | Ξ        | $\Box$    | _        | $\exists$ |          |   |              |            |                                | ] |                | 66       |          |           |           |          |           |              |          |          |          |   |          | 116        |          | $\Box$    | $\Box$   | $\Box$   | $\Box$    |           |          | $\Box$    | ⊐        |
| 17       | 17         | Ξ        | _         | 4        | 4         | _        | L | _            | _          | _                              |   | ш              | 67       | Ш        | Ш         | _         | Ш        | L         |              | _        |          | Ц        | L |          | 117        | Ш        | _         | 4        | 4        | _         | _         | _        | _         | _        |
| 18<br>19 | 18<br>19   | =        | +         | +        | -         | _        | ⊢ | ⊢            | ⊢          | ⊢                              |   | $\vdash$       | 68       | Н        | Ш         |           | Н        |           | Н            | -        | _        | 4        | ŀ | _        | 118        |          | 4         | 4        | 4        | 4         | 4         | 4        | 4         | 4        |
| 20       | 20         | =        | +         | +        | ┥         | -        | ⊢ | ⊢            | ⊢          | Н                              | 1 | $\vdash$       | 69<br>70 | Н        | Н         | Н         | Н        |           | Н            | -        | -        | $\dashv$ | ŀ | -        | 119<br>120 | $\vdash$ | $\dashv$  | +        | $\dashv$ | $\dashv$  | -1        | -        | +         | -        |
| 21       | 21         | -        | +         | +        | +         | _        | _ | $\vdash$     | $\vdash$   | H                              | ł | $\vdash$       | 71       | Н        | -         | Н         | Н        | -         | Н            | $\dashv$ | -        | $\dashv$ | ŀ | _        | 121        | Н        | +         | +        | +        | +         | +         | +        | +         | -        |
| -        | 22         |          | -         | +        | 7         | _        |   | $\vdash$     | 1          | Н                              | ł | $\vdash$       | 72       | Н        | Н         | -         | Н        | Н         | Н            | $\dashv$ | -        | $\dashv$ | ŀ |          | 122        | $\vdash$ | +         | $\dashv$ | +        | +         | +         | $\dashv$ | +         | ۲        |
|          | 23         |          |           | 1        |           |          | _ | T            | 1          | ┢                              | i | Н              | 73       |          |           |           | Н        | _         |              | ┪        | _        | ┪        | ı |          | 123        | $\vdash$ | 7         | $\neg$   | 7        | 7         | $\dashv$  | 7        | +         | ┪        |
|          | 24         |          |           |          |           |          |   |              |            |                                | 1 |                | 74       |          |           |           |          |           | П            | $\neg$   |          | ┑        | ı |          | 124        |          | 7         | 1        | 1        | T         | $\neg$    | 7        |           | ٦        |
|          | 25         |          | $\Box$    |          |           |          |   |              |            |                                | ] |                | 75       |          |           |           |          |           |              |          |          |          |   |          | 125        |          |           | $\Box$   |          | $\Box$    | $\Box$    |          | $\exists$ | ⊐        |
|          | 26         | Ц        | _         | _        | $\perp$   |          |   | <u> </u>     |            |                                |   |                | 76       |          |           |           |          |           |              |          |          |          |   |          | 126        |          |           |          |          | $\Box$    |           |          | $\Box$    | コ        |
| _        | 27<br>28   | Н        | -         | 4        | 4         | _        | _ | ⊢            | ╙          | _                              |   | $\vdash$       | 77       |          | _         | _         | Н        |           | Н            | 4        | _        | _        | ŀ |          | 127        | Н        | 4         | _        | _        | 4         | 4         | 4        | 4         | 4        |
| $\dashv$ | 29         | Н        | +         | +        | $\dashv$  | -        | - | ⊢            | ⊢          | -                              |   | $\vdash$       | 78<br>79 | Н        | -         | -         | Н        | -         | Н            | $\dashv$ | -        | -        | H | -        | 128<br>129 | Н        | +         | -        | +        | +         | -         | +        | +         | 4        |
| $\dashv$ | 30         | Н        | +         | +        | $\dashv$  | -        | ⊢ | Η.           | $\vdash$   | -                              |   | $\vdash$       | 80       | Н        | -         | -         | Н        | -         | $\dashv$     | $\dashv$ | -        | $\dashv$ | H | -        | 130        | $\vdash$ | +         | +        | +        | +         | +         | +        | +         | Н        |
| $\neg$   | 31         | $\dashv$ | $^+$      | +        | $\dashv$  | _        | _ | $\vdash$     | Н          | _                              | 1 | $\vdash$       | 81       | Н        | $\dashv$  | -         | Н        | _         | Н            | -        | -        | $\dashv$ | H | -1       | 131        | +        | +         | +        | +        | +         | +         | +        | +         | ۲        |
|          | 32         | П        | $\top$    | 7        | ┪         |          | Т |              |            |                                | 1 | $\vdash$       | 82       | П        |           |           |          |           |              | 1        |          |          | ı |          | 132        | Н        | 7         | $^{+}$   | +        | 7         | _         | 7        | +         | ٦        |
|          | 33         |          |           | I        | _         |          |   |              |            |                                |   |                | 83       |          |           |           |          |           |              |          |          |          | E |          | 133        |          | $\exists$ |          |          | $\exists$ | $\exists$ |          |           | ╛        |
| _        | 34         | Ц        | _         | 1        | 4         | _        |   | $\Box$       | L          |                                |   | $\Box$         | 84       | Ц        | Д         |           |          | _         |              | _        | $\Box$   | _        | F |          | 134        | П        | _         |          | T        | 1         | I         | _        |           | 1        |
| _        | 35         | 4        | -         | 4        | 4         | _        | _ | _            | <u> </u>   | _                              |   | $\vdash$       | 85       | $\vdash$ | -         | _         | $\vdash$ | _         | 4            | _        | -        | -        | - |          | 135        | $\sqcup$ | 4         | -        | 4        | 4         | 4         | 4        | +         | 4        |
| -        | 36<br>37   | -        | +         | +        | +         | $\dashv$ | - | Н            | ⊢          | -                              |   | $\vdash$       | 86<br>87 | Н        | -         | -         | Н        | _         | $\vdash$     | 4        | -        | $\dashv$ | 1 | _        | 136<br>137 | $\vdash$ | 4         | -        | +        | 4         | +         | +        | +         | $\dashv$ |
| -        | 38         | $\dashv$ | +         | +        | +         | +        | - | Н            | ┝          | -                              |   | $\vdash$       | 88       | -        |           | -         | Н        | -         | -            | -        | -        | -        | ŀ | -        | 138        | $\vdash$ | +         | +        | +        | +         | +         | +        | +         | $\dashv$ |
| -1       | 39         | -        | +         | +        | +         | $\dashv$ |   | Н            | ┢          | Н                              |   | $\vdash$       | 89       | Н        | $\dashv$  | -         | Н        | -         | -            | +        | $\dashv$ | $\dashv$ | H | $\neg$   | 139        | $\vdash$ | +         | +        | +        | +         | +         | +        | +         | ۲        |
| $\neg$   | 40         | $\dashv$ | +         | +        | +         | 7        | П | Н            | $\vdash$   | Н                              |   | $\vdash$       | 90       | $\vdash$ | $\dashv$  | $\dashv$  | $\dashv$ | $\exists$ | $\dashv$     | +        | $\dashv$ | $\dashv$ | ı | $\neg$   | 140        | +        | +         | +        | +        | +         | $^{+}$    | +        | +         | ۲        |
|          | 41         | 1        | 1         | 7        | 1         |          |   |              | _          |                                |   | П              | 91       | $\neg$   | $\neg$    |           |          |           | 7            | 7        | $\neg$   | 7        | ۲ | $\neg$   | 141        | $\vdash$ | 7         | +        | 1        | 7         | 7         | 7        | $\top$    | ٦        |
|          | 42         | $\Box$   | T         | I        | I         | Π        |   |              |            |                                |   |                | 92       |          |           |           |          |           |              |          |          |          |   |          | 142        |          |           |          | T        | I         | $\Box$    | I        | Τ         |          |
| _        | 43         | _        | 4         | 1        | 4         |          |   | Ш            | L          | Ц                              |   | $\sqcup$       | 93       | Ц        | 4         |           | Ц        | _         | _            | 4        | 4        | 4        | F | _        | 143        | Ц        | _         | 4        | 4        | 4         | 4         | 4        | 4         | _        |
| $\dashv$ | 44         | -        | +         | 4        | 4         | -        | - | Н            | ⊢          | _                              |   | $\vdash$       | 94       | -        | -         | -         | $\Box$   | _         | -            | 4        | -        | 4        | H | _        | 144        | $\vdash$ | 4         | +        | +        | +         | +         | 4        | +         | 4        |
| $\dashv$ | 45<br>46   | $\dashv$ | +         | +        | 4         | -        | - | Н            | $\vdash$   | щ                              |   | $\vdash\vdash$ | 95<br>96 | -        | -         | -         | -        | -         | $\dashv$     | +        | 4        | $\dashv$ | H | $\dashv$ | 145        | $\vdash$ | +         | +        | +        | +         | +         | +        | +         | 4        |
| -        | 47         | $\dashv$ | +         | +        | +         | -        | - | Н            | ⊢          | -                              |   | $\vdash$       | 96       | $\dashv$ | -         | -         | $\dashv$ | -         | +            | +        | -        | $\dashv$ | H | -        | 145        | +        | +         | +        | +        | +         | +         | +        | +         | +        |
|          | 48         | $\dashv$ | +         | +        | +         | $\dashv$ | - | Н            | Н          | -                              |   | $\vdash$       | 98       | $\dashv$ | +         | $\dashv$  | $\dashv$ | -         | +            | +        | -        | $\dashv$ | Н | -+       | 148        | +        | +         | +        | +        | +         | +         | +        | +         | Н        |
| _        | 49         | 7        | +         | +        | 7         | 7        |   | П            | Н          |                                |   | $\vdash$       | 99       | $\dashv$ | $\exists$ | $\exists$ | $\dashv$ |           | $\dashv$     | 7        | 7        | $\dashv$ | H | $\neg$   | 149        | 1        | +         | +        | +        | +         | $\top$    | +        | $^{+}$    | ٦        |
|          | 50         |          |           | $\top$   | 7         |          |   | П            |            |                                |   |                | 100      | $\neg$   | $\neg$    |           |          |           |              |          |          |          | ı |          | 150        |          | $\neg$    | $\neg$   |          | ナ         | 7         | 7        | 7         | ٦        |